

AgSTAR Conference

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**Steve Dvorak, P.E.
GHD, Inc.
P.O. Box 69 Chilton, WI 53014
(920) 849-9797
corporate@ghdinc.net**



BIOGAS CONSUMPTION

- ❑ 55 - 60% Methane ($\text{CO}_2 \sim 45\%$)
- ❑ Gen-Set Provides Electricity and Heat
- ❑ Small Amount of H_2S
- ❑ Excess Biogas Is Flared
- ❑ Considerations When Burning Biogas
 - Engine Temperatures (oil & coolant)
 - Moisture Content of Biogas
 - Pressure Requirement to Engine



CAT

5379

MARTIN MACHINERY
CAT

CATERPILLAR









Marketable carbon credits paid to dairymen for reduction of greenhouse gases.

Animal Producers begin to tap a new, reliable, endless source of revenue.

It just seems to be the way things go in America. One year we're worried about a problem; take methane gas from animals for instance; the next year someone comes up with a solution. Get this! A solution that not only solves the problem but can create additional opportunity, employment and prosperity in the process; take the ECC Carbon Credit Program being offered to animal producers across the country. What a country!

It all starts with the continuing movement of animal producers, dairymen in particular to utilize the newest technology to revise their past methods of manure handling. According to the

United States Environmental Protection Agency, management of livestock manure accounts for 6.6 percent of total U.S. greenhouse gas emissions.

New technologies, such as anaerobic digesters, increasingly used by dairies and other livestock operations to control odors, produce renewable power, and provide clean animal bedding and organic soil amendments, can greatly reduce methane emissions. These technologies provide an opportunity to create valuable "carbon credits" as a new source of farm revenue.

Dairymen are already moving toward better and better manure separation. The need to reclaim and better use

water resources, preservation of soils and the marketability of the composed dry matter has and will continue to make that a viable alternative.

Now the technology exists to capture or reduce the emissions of methane, a potent greenhouse gas produced by livestock, and in turn create what are called "carbon credits".

What are carbon credits, and of what value are they, would be the next logical question. Well carbon credits are a new

Darryl VanderHaak receives his first check for reductions of methane, a powerful greenhouse gas, in front of some of the cows that power his methane digester.

